

## CLAIMS

1. A measuring head, comprising:
  - a head body;
  - a base lever which is mounted to the head body swingably in a measurement direction and retract direction; and
  - a measurement lever securably and releasably mounted at a base end thereof via a clamp mechanism to a shaft portion provided on a tip end portion of the base lever, the measurement lever including a contact abutting a measured object in a tip end thereof, wherein the clamp mechanism comprises:
    - a bearing member which is provided at a base end of the measurement lever, the bearing member having a slit portion formed therein to allow the shaft portion to be fitted therein, resiliently deforming the slit portion in a closing direction thereof allowing the bearing member to be fastened to the shaft portion; and
    - a fastening member which is mounted to the measurement lever rotatably in an open direction and close direction, rotating the fastening member in the open direction releasing the shaft portion secured by the bearing member, and rotating the fastening member in the close direction resiliently deforming the bearing member in a closing direction of the slit portion in the bearing member to fasten the measurement lever to the shaft portion via the bearing member, the fastening member at this time using a rotating force generated in the fastening member to deflect the measurement lever by a predetermined amount.
2. The measuring head as defined in claim 1, further comprising a regulating device which regulates an amount of swing of the base lever and variably controlling an amount of travel of the measurement lever.
3. The measuring head as defined in claim 1, wherein the clamp mechanism is sealed to avoid entrance of foreign matters from outside.
4. The measuring head as defined in claim 1, wherein the fastening member is configured to be rotated manually or through a tool.
5. The measuring head as defined in claim 1, wherein the fastening member comprises a

cam, and an engaging device is provided which holds an amount of rotation of the cam in a stepped manner.